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Prior to examining the National phase application of PCT/IL99/00651, please amend the claims in the manner as submitted in response to the Written Opinion:

Cancel all the claims as recited in the published WO 00/32804 and substitute therefor new claims 1-17:

1. A method of genetically modifying a eukaryotic diploid parasite, the method comprising the step of directly transforming a multicellular differentiated developmental stage of the eukaryotic diploid parasite using a group transformation method, so as to obtain a genetically modified eukaryotic diploid parasite.
2. The method of claim 1, wherein the parasite is a worm.
3. The method of claim 2, wherein said worm is a flat worm.